

BOOKS RECEIVED

FAUTIN, DAPHNE GAIL, DOUGLAS J. FUTUYMA, AND FRANCES C. JAMES, eds. 1997. **Annual Review of Ecology and Systematics. Volume 28.** (ISBN 0-8243-1427-1, hbk). Annual Reviews Inc., 4139 El Camino Way, P.O. Box 10139, Palo Alto, CA 94303-0139. \$60.00. 712 pp.

Volume 28 is the usual variety of papers reviewing the fields of ecology and systematics. The following list of 25 articles reflects the diversity of contributions in this 1997 Annual Review. Contents: Molecular population genetics of social insects. Evolution of eusociality in termites. Evolutionary genetics and genetic variation of haplodiploids and x-linked genes. Dissecting global diversity patterns: Examples from the Ordovician Radiation. A comparison of alternative strategies for estimating gene flow from genetic markers. The evolution of morphological diversity. Insect mouthparts: Ascertaining the paleobiology of insect feeding strategies. Haldane's Rule. Echinoderm larve and phylogeny. Preserving the information content of species: Genetic diversity, phylogeny, and conservation worth. Theoretical and empirical examination of density-dependent selection. Toward an integration of landscape and food web ecology: The dynamics of spatially subsidized food webs. Settlement of marine organisms in flow. Species richness of parasite assemblages: Evolution and patterns. Hybrid origins of plant species. Evolutionary genetics of life cycles. Phylogeny estimation and hypothesis testing using maximum likelihood. Species turnover and the regulation of trophic structure. Extinction vulnerability and selectivity: Combining ecological and paleontological views. Tree-grass interactions in savannas. Plant competition underground. Male and female alternative reproductive behaviors in fishes: A new approach using intersexual dynamics. The role of hybridization and introgression in the diversification of animals. The ecology of interfaces: Riparian zones. Allometry for sexual size dimorphism: Pattern and process in the coevolution of body size in males and females.

The usual indexes follow: Subject Index, Cumulative Index of Contributing Authors, and a Cumulative Index of Chapter Titles, Volumes 24-28.

JANICK, JULES, ed. 1997. **Plant Breeding Reviews. Volume 15.** (ISBN 0-471-18904-9, hbk). John Wiley & Sons, Inc., 605 Third Avenue, New York, NY 10158-0012. \$145.00. 395 pp.

This volume of Plant Breeding Reviews is dedicated to Arnel R. Hallauer, scientist, maize breeder, and quantitative geneticist. The contents start with a dedication to Dr. Hallauer: 1) Dedication: Arnel R. Hallauer, Scientist, Maize Breeder, Quantitative geneticist. The remaining eight chapters cover a variety of areas in plant breeding. Contents: 2) Molecules involved in self-incompatibility in flowering plants. 3) Genetic mosaics and plant improvement. 4) Quantitative trait loci: Separating, pyramiding, and cloning. 5) Doubled haploid breeding in cereals. 6) Spelt: Agronomy, genetics, and breeding. 7) Cowpea breeding. 8) Recurrent selection in soybean. 9) Gene action and plant breeding. All of this followed by a Subject Index, Cumulative Subject Index and a Cumulative Contributor Index for volumes 1-15.